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JP 1635
PATENT APPLICATION

ATTORNEY DOCKET NO. 10020230-1
2003309-0028

IN THE
UNITED STATES PATENT AND TRADEMARK OFFICE

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#24/I.D.S.

Inventor(s): Sampson, et al.

Serial No.: TBA

Examiner: TBA

Filing Date: Dec. 18, 2003

Group Art Unit: TBA

Title: METHOD OF PRODUCING NUCLEIC ACID MOLECULES WITH REDUCED SECONDARY
STRUCTURE

COMMISSIONER FOR PATENTS
Washington, D.C. 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- ☒ under 37 CFR 1.97(b), or
(Within three months of filing national application; or date of entry of national application; or before
mailing date of first office action on the merits; whichever occurs last)
- ☐ under 37 CFR 1.97(c) together with either a:
☐ Statement under 37 CFR 1.97(e), or
☐ a \$180.00 Processing fee under 37 CFR 1.17(p), or
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ☐ under 37 CFR 1.97 (d) together with a:
☐ Statement under 37 CFR 1.97(e), and
☐ a \$180.00 processing fee under 37 CFR 1.17(p).
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Please charge to Deposit Account **50-1078** the sum of \$0.00. At any time during the
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Account **50-1078** pursuant to 37 CFR 1.25.

☒ Applicant(s) submit herewith Form PTO 1449. References identified with an asterisk (*) were
disclosed in Patent Application No. 09/358,141* filed 07-20-1999, now U. S. Patent No.
 , and, as such, copies thereof are not included pursuant to the provisions of 37 CFR
1.98(d). *and in Patent Application No. 06/632,639 filed 07/31/2000

☐ A concise explanation of the relevance of foreign language patents, foreign language publications
and other foreign language information listed on PTO Form 1449, as presently understood by the
individuals(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the
attached sheet, or where a foreign language patent is cited in a search report or other action by a
foreign patent office in a counterpart foreign application, an English language version of the search
report or action which indicates the degree of relevance found by the foreign office is listed on form PTO
1449 and is enclosed herewith.

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Date of Deposit: **April 7, 2003**

Typed Name: **Linda M. Amato**

Signature: _____

Respectfully submitted,

Sampson, et al.

By


Brenda Herschbach Jarrell, Ph.D

Attorney/Agent for Applicant(s)
Reg. No. **39,223**

Date: **April 7, 2003**

Telephone No.: **(617) 248-5000**



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GROUP

RECEIVED

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME
	*	4,883,750	Nov. 28, 1989	Whiteley et al.
	*	4,988,617	Jan. 29, 1991	Landegren, et al.
	*	5,242,794	Sep. 7, 1993	Whiteley, et al.
	*	5,403,709	Apr. 4, 1995	Agrawal, et al.
	*	5,494,810	Feb. 27, 1996	Barany, et al.
	*	5,521,065	May 28, 1996	Whiteley, et al.
	*	5,534,424	July 9, 1996	Uhlen, et al.
	*	5,595,890	Jan. 21, 1997	Newton, et al.
	*	5,605,798	Feb. 25, 1997	Koster
	*	5,665,549	Sep. 9, 1997	Pinkel, et al.

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FOREIGN PATENT DOCUMENTS

	*	DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
	*	WO 95/04160	9 Feb 1995	Southern, et al.		
	*	WO 92/15712	17 Sep 1992	Goelet, et al.		
	*	WO 97/35033	25 Sep 1995	Boyce-Jacino, et al.		
	*	WO 97/12896	10 Apr 1997	Kutyavin, et al		

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

		Antao, et al., "A thermodynamic study of unusually stable RNA and DNA Hairpins", Nucleic Acids Research, 19:5901-5905, 1991.
		Atwell, et al., "Structure of a Copper-Mediated Base SPair in DNA", J. American Chemical Society, 123:12364-12367, 2001.
	*	Bailly and Waring, "Transferring the Purine 2-Amino Group from Guanines to Adenines in DNA Changes the Sequence-Specific Binding of Antibodies", Nucleic Acids Research, 23: 885-892, 1995.

EXAMINER

DATE CONSIDERED

* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)



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PATENT APPLICATION

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*	DOCUMENT NUMBER	DATE	NAME
		5,667,972	Sep. 16, 1997	Drmanac, et al.
		5,830,645	Nov. 3, 1998	Pinkel, et al.
	*	5,912,340	Jun. 15, 1999	Kutyavin, et al.
		6,018,041	Jan. 25, 2000	Drmanac, et al.
		6,027,890	Feb. 22, 2000	Ness, et al.
		6,159,685	Dec. 12, 2000	Pinkel, et al.
		6,184,364	Feb. 6, 2001	Picken, et al.
		6,218,118	Apr. 17, 2001	Sampson, et al.
		6,270,961	Aug. 7, 2001	Drmanac, R.

APR 11 2003

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FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
				YES	NO

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

*	Bailly and Waring, "The Use of Diaminopurine to Investigate Structural Properties of Nucleic Acids and Molecular Recognition Between Ligands and DNA", Nucleic Acids Research, 26 (19); 4309-4314, 1998.
*	Beaucage and Caruthers, "Deoxynucleoside Phosphoramidites - A New Class of Key Intermediates for Deoxypolynucleotide Synthesis", Tetrahedron Letters, 22:1859-1862, 1981.
*	Belousov, Evgenity S., et al., "Sequence-Specific Targeting and Covalent Modification of Human Genomic DNA", Nucleic Acids Research, 25(17): 3440-3444, 1997.

EXAMINER

DATE CONSIDERED

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FORM PTO-1449

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FOREIGN PATENT DOCUMENTS

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					YES	NO

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

*	Bloom, et al., "Influence of 5'-Nearest Neighbors on the Insertion Kinetics of the Fluorescent Nucleotide Analog 2-Aminopurine by Klenow Fragment", Biochemistry 32:11247-11258, 1993.
*	Chamberlin and Ryan, "Bacteriophage DNA-Dependent RNA Polymerases", The Enzymes, ed. Boyer, Academic Press, New York, 87-108, 1982.
*	Chee, M., et al., "Accessing Genetic Information with High-Density DNA Arrays", Science 274, 610-614, 1996.

EXAMINER

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OTHER REFERENCES (U.S. Patents)

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

Cheng, "High Speed DMA,"

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)	
*	Cheng, "High Speed DNA Sequence Analysis," Prog. Biochem Biophys, 22:223-227, 1995.
*	Deamer, et al., "Nanopores and Nucleic Acids: Prospects for Ultrarapid Sequencing", Trends in Boitech, 18:147-151, 2000.
	Drmanac, S., et al., "Accurate sequencing by hybridization for DNA diagnostics and individual genomics", Nature Biotechnology, 16:54-58, 1998

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OTHER REFERENCES (including Internet)						

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)
Dubriel, Yolande Lemaigre "C...

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)		
*	Dubriel, Yolande Lemaigre, "Conformation and Structural Fluctuations of a 218 Nucleotides Long rRNA Fragment: 4-Thiouridine As An Intrinsic Photolabeling Probe", Nucleic Acids Research, 19(13):3653-3660, 1991.	
*	Fathi, et al., "Sythesis of 6-Substituted 2-Dioxyguanosine Derivatives Using Thifluoroacetic Anhydride in Pyridine", Tetrahedron Letters, 31:319-322, 1990.	
*	Feinberg & Vogelstein, "A Technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity", Analytical Biochemistry, 132:6-13, 1983.	

EXAMINER

DATE CONSIDERED

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OTHER REFERENCES (including Internet)						

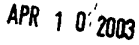
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)
Feinberg & Vogelstein, "A Techni..."

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)	
*	Feinberg & Vogelstein, "A Technique for Radiolabeling DNA Restriction Endonuclease Fragments to High Specific Activity", Analytical Biochemistry, 137:266-267, 1984.
*	Gall & Pardue, "Formation and Detection of RNA-DNA Hybrid Molecules in Cytological Preparations", Proc.Natl. Acad. Sci., USA., 63:378-383, 1969.
*	Gamper, et al., "Facile Preparation of Nuclease Resistant 3' Modified Oligodeoxynucleotides", Nucleic Acids Res., 21:145-150, 1992.

EXAMINER

DATE CONSIDERED

* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)



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STATEMENT OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT

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U.S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

TRANSLATION

YES	NO
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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

Goodman, et al., "Biochemical Basis of Molecular Biology of the Cell," 6th ed., W. H. Freeman & Co., New York, 1980, pp. 1-10.

Goodman, et al., "Biochemical Basis of DNA Replication Fidelity", Critical Review in Biochemistry and Molecular Biology, 28:83-126, 1993.

Guckian, et al., "Solution structure of DNA duplex containing a replcable difluorotoluene-adenine pair", *Nature Structural Biology*, 5:954-959, 1998.

Gyllenstein and Erlich, "Generation of Single-Stranded DNA by the Polymerase Chain Reaction and its Application to Direct Sequencing of the HLA-DQA Locus", Proc. Natl. Acad. Sci USA., 85:7652-7656, 1988.

DATE CONSIDERED

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**LIST OF PATENTS AND PUBLICATIONS FOR
APPLICANT'S INFORMATION DISCLOSURE
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10020230-1

SERIAL NO.

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FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO
OTHER REFERENCES (including references to prior art documents)						

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

Haff and Smirnov, "Single-Nucleotide Polymorphisms in the Human Genome," *Journal of Molecular Biology*, 1998, 281, 1-10.

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)	
*	Haff and Smirnov, "Single-Nucleotide Polymorphism Identification Assays Using a Thermostable DNA Polymerase and Delayed Extraction MALDI-TOF Mass Spectrometry", Genome Research, 7:378-388, 1997.
*	Higuchi, et al., "Production of Single-Stranded DNA Templates by Exonuclease Digestion Following the Polymerase Chain Reaction", Nucleic Acids Research 17(14): 5865, 1989.
*	Horlacher, Jennifer, et al., "Recognition by Viral and Cellular DNA Polymerases fo Nucleosides Bearing Bases with Nonstandard Hydrogen Bonding Patterns", Proc. Natl. Acad. Sci. USA, 92:6329-6333, 1995.

DATE CONSIDERED

* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)

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APR 1 2003
PATENT & TRADEMARK OFFICE

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		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO

OTHER REFERENCES (U.S. Patents)

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)
Hultman, et al. "Direct Solids..."

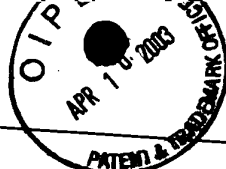
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)	
*	Hultman, et al., "Direct Solid Phase Sequencing of Genomic and Plasmid DNA Using Magnetic Beads as Solid Support", Nucleic Acids Research, 17:4937-4946, 1989.
*	John, et al., "RNA-DNA Hybrids at the Cytological Level", Nature, 223:582-587, 1969.
*	Johnson, "Conformational Coupling in DNA Polymerase Fidelity", Annual Review in Biochemistry, 62:685-713, 1993.

EXAMINER

DATE CONSIDERED

* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)

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					YES	NO
OTHER REFERENCES (including references made by applicant)						

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)
Landegren, et al., "Reading Dis..."

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)	
*	Landegren, et al., "Reading Bits of Genetic Information: Methods for Single-Nucleotide Polymorphism Analysis" Genome Research, 8:769-776, 1998.
*	Langer, et al., "Enzymatic Synthesis of Biotin-Labeled Polynucleotides: Novel Nucleic Acid Affinity Probes", Proc. Natl. Acad. Sci., USA 78:6633-6637, 1981.
*	Law, et al., "Spectroscopic and Calorimetric Characterizations of DNA Duplexes Containing 2-Aminopurine", Biochemistry 35:12329-12337, 1996.

EXAMINER

DATE CONSIDERED

* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)



FORM PTO-1449

ATTY. DOCKET NO.

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FOREIGN PATENT DOCUMENTS

[illegible]

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)		
*	Ling, Yi-He, et al., "Consequences of 6-Thioguanine Incorporation into DNA on Polymerase, Ligase and Endonuclease Reaction", Molecular Pharmacology, 42:802-807, 1992.	
*	Little, et al., "An Exonuclease Induced by Bacteriophage", J. Biol Chem. 242:672, 1967.	
*	Lockart, et al., "Expression Monitoring by Hybridization to High-Density Oligonucleotide Arrays", Nat. Biotech. 14:1675-1680, 1996.	

EXAMINER

DATE CONSIDERED

* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)

FORM PTO-1449

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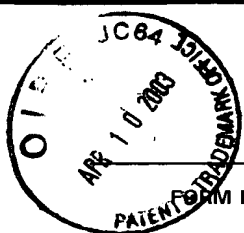
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)	
*	Lukhtanov, Eugeny A., et al., "Rapid and Efficient Hybridization-Triggered Crosslinking Within a DNA Duplex by an Oligodeoxyribonucleotide Bearing a Conjugated Cyclopropapyrroloindole", Nucleic Acids Research, 24(4): 683-687, 1996.
*	Lukhtanov, Eugeny A., et al., "Sequence and Structure Dependence of the Hybridization-Triggered Reaction of Oligonucleotides Bearing Conjugated Cyclopropapyrroloindole," J. Am Chem. Soc., 119:6214-6225, 1997.
*	Lutz, et al., "Differential Discrimination of DNA Polymerases for Variants of the Non-Standard Nucleobase Pair Between Xanthosine and 2,4-Diaminopyrimidine, Two Components of an Expanded Generic Alphabet", Nucleic Acids Research 24:1308-1313, 1996.

EXAMINER

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FORM PTO-1449

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				APR 11 2003
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FOREIGN PATENT DOCUMENTS

	*	DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

*	Mizusawa, et al., "Improvement of the Dideoxy Chain Termination Method of DNA Sequencing by Use of Deoxy-7-Deazaguanosine Triphosphate in Place of dGTP", Nucleic Acid Research, 14:1319, 1986.
*	Nikiforov, et al., "Genetic Bit Analysis: A Solid Phase Method for Typing Single Nucleotide Polymorphisms", Nucleic Acids Research, 22:4167-4175, 1994.
*	Pagratis, Nikos C., "Rapid Preparation of Single Stranded DNA from PCR Products by Streptavidin induced Electrophoretic Mobility Shift", Nucleic Acids Research, 24:3645-3646, 1996.

EXAMINER

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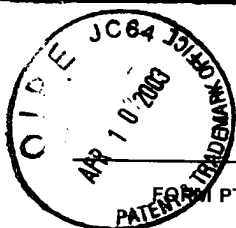
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

*	Pastinen, et al., "Minisequencing: A Specific Tool for DNA Analysis and Diagnostics on Oligonucleotide Arrays", Genome Research, 7:606-614, 1997.
	Pease, A.C., et al., "Light-generated Oligonucleotide arrays for rapid DNA sequence analysis", Proc. Natl. Acad. Sci USA, 91:5022-5026, 1994.
	Pinkel, D. et al., "High resolution analysis of DNA copy number variation using comparative genomic hybridization to microarrays", Nature Genetics, 20(2):207-211, 1998.

EXAMINER

DATE CONSIDERED

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PTO-1449 LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT (Use several sheets if necessary)	ATTY. DOCKET NO. 10020230-1	SERIAL NO.
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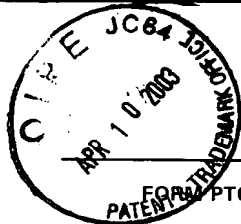
		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

*	Rackwitz and Scheit, "The Stereochemical Basis of Template Function" Eur. J. Biochem, 72:191, 1977.
*	Ramsay, Graham, "DNA Chips: State-of-the-Art", Nature Biotechnology, 16:41-44, 1998.
*	Robins, et al., "Nucleic Acid Related Compounds. 38. Smooth and High-Yield Iodination and Chlorination at C-5 of Uracil Bases and p-Toluyyl-Protected Nucleosides", Can. J. Chem., 60:554-557, 1982.

EXAMINER	DATE CONSIDERED
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		DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
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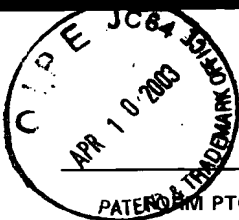
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

		Sheardy, et al., "A Thermodynamic Investigation of the Melting of B-Z Junction Forming DNA Oligomers." Biochemistry, 33:1385-1391, 1994.
	*	Shumaker, et al., "Mutation Detection by Solid Phase Primer Extension", Human Mutation, 7:346-354, 1996.
	*	Sinha, et al., "Polymer Support Oligonucleotide Synthesis XVIII: Use of B-Cyanoethyl-N, N-Dialkylamino-/N-Morpholino Phosphoramidite of Deoxynucleosides for the Sythesis of DNA Fragments Simplifying Deprotection and Isolation of the Final Product", Nucleic Acids Research, 12:4539-4557, 1984.

EXAMINER

DATE CONSIDERED

* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)



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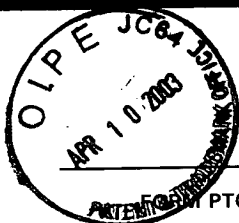
OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

		Sudar, D., et al., "Comparative Genomic Hybridization for Molecular Cytogenetic Analysis of Solid Tumors", Science, 258(5083): 818,821, 1992.
	*	Switzer, et al., "Enzymatic Recognition of the Base Pair Between Isocytidine and Isoguanosine", Biochemistry 32:10489-10496, 1993.
	*	Wagner, et al., "Antisense Gene Inhibition by Oligonucleotides Containing C-5 Propyne Pyrimidines", Science, 260:1510-1513, 1993.

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DATE CONSIDERED

* Copies of these references are not enclosed pursuant to 37 CFR 1.98(d). (See accompanying IDS)



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	*	DOCUMENT NUMBER	DATE	NAME	TRANSLATION	
					YES	NO

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

		Walker, G.T., et al., "Isothermal in vitro amplification of DNA by a restriction enzyme/DNA polymerase system", Proc. Natl. Acad. Sci 89:392-396, 1992.
	*	Wang, et al., "Large-Scale Identification, Mapping and Genotyping of single-Nucleotide Polymorphisms in the Human Genome", Science, 280: 1077-1082, 1998.
	*	Wang, et al., "An Ultraviolet Crosslink in the Hammerhead Ribozyme Dependent on 2-Thiocyridine or 4-Thiouridine Substitution", Nucleic Acids Research, 25(21):4355-4361, 1997.
EXAMINER		DATE CONSIDERED

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